

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT Duval County FL BEC Borrow Area A			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION CB-DUC04-07			10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	
LOCATION COORDINATES X = 416,273 Y = 2,188,947			HORIZONTAL NAD27	
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.			11. MANUFACTURER'S DESIGNATION OF DRILL Vibrocure	
CONTRACTOR FILE NO.			12. TOTAL SAMPLES 4	
4. NAME OF DRILLER James F. Cole			13. TOTAL NUMBER CORE BOXES 1	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			14. ELEVATION GROUND WATER Tidal	
DEG. FROM VERTICAL			15. DATE BORING 04-15-04	
BEARING			STARTED 04-15-04	
6. THICKNESS OF OVERBURDEN N/A			COMPLETED 04-15-04	
7. DEPTH DRILLED INTO ROCK N/A			16. ELEVATION TOP OF BORING -52.7 Ft.	
8. TOTAL DEPTH OF BORING 19.0 Ft.			17. TOTAL RECOVERY FOR BORING 100 %	
			18. SIGNATURE AND TITLE OF INSPECTOR William H. Brenner, Geologist <i>William H. Brenner</i>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-52.7	0.0						-52.7		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, strong reaction with HCl, wet, 5B 5/1 bluish gray (SP)	100			-53.2		
				100	1		Vibrocure		
							-54.2		
				100			Vibrocure		
-57.2	4.5		SAND, silty, mostly fine to medium-grained sand-sized quartz, some angular sand to gravel-sized shell up to 1-1/2", 5B 5/1 bluish gray (SM)				-58.2		
			At El. -57.7 Ft., mostly fine-grained sand-sized quartz, strong reaction with HCl, weak cementation	100	2		Vibrocure		
			At El. -59.2 Ft., little silt, weak reaction with HCl, 10B 5/1 bluish gray				-59.2		
				100			Vibrocure		
			At El. -61.7 Ft., moderate cementation				-63.7		
				100	3		Vibrocure		
							-64.7		
-66.7	14.0		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized carbonate, trace silt, trace angular shell up to 1-1/2",	100			Vibrocure		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																	
PROJECT Duval County FL BEC			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD27	VERTICAL MLLW																	
LOCATION COORDINATES X = 416,273 Y = 2,188,947			ELEVATION TOP OF BORING -52.7 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
			strong reaction with HCl, 10YR 3/6 dark yellowish brown (SP-SM)	100	4		-68.2	Vibracore															
				100			-69.2	Vibracore															
				100				Vibracore															
-71.7	19.0						-71.7																
			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.5/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.5/6.5</td> <td>SM*</td> </tr> <tr> <td>3</td> <td>11.0/12.0</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>15.5/16.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits. 3. Additional Laboratory Testing 2 Specific Gravity	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.5/1.5	SP*	2	5.5/6.5	SM*	3	11.0/12.0	SP-SM*	4	15.5/16.5	SP*					
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